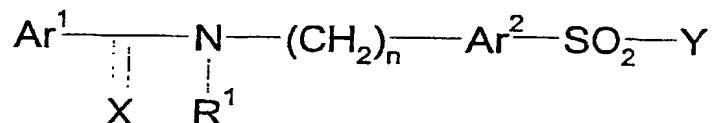


Claims

1. Sulfonamide derivatives according to formula I



I

with its geometrical isomers, in an optically active form as enantiomers, diastereomers, as well as in the form of racemates, as well as pharmaceutically acceptable salts thereof, wherein

Ar<sup>1</sup> and Ar<sup>2</sup> are independently from each other substituted or unsubstituted aryl or heteroaryl groups,

X is O or S, preferably O;

R<sup>1</sup> is hydrogen or a C<sub>1</sub>-C<sub>6</sub>-alkyl group, or R<sup>1</sup> forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with Ar<sup>1</sup>;

n is an integer from 0 to 5, preferably between 1-3 and most preferred 1;

Y within formula I is an unsubstituted or a substituted 4-12-membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide,

with the proviso that if Ar<sup>1</sup> is 4-chlorophenyl, X is O, R<sup>1</sup> is H, Ar<sup>2</sup> is thienyl, while Y is a piperazino group, L<sup>1</sup> shall not be diphenylmethyl, benzo[1,3]dioxol-5-yl-methyl, 4-methoxy phenyl, 2-hydroxyethyl, methyl, 4-chlorophenyl methyl, and if Y is a 3-methyl piperazino, L<sup>1</sup> shall not be 4-chlorophenyl methyl, and if Y is piperazino-3, 5-dione, L<sup>1</sup> shall not be 2-phenyl ethyl,

with the further proviso that if Ar<sup>1</sup> is 4-chlorophenyl, X is O, R<sup>1</sup> is H, Ar<sup>2</sup> is thienyl, while Y is a piperidino group with L<sup>1</sup> being H, L<sup>2</sup> shall not be 2-hydroxy ethyl;

with the further proviso that if Y is a piperidino- or a pyrrolidino group being substituted at the β-position of the piperidino- or a pyrrolidino nitrogen by a benzo[5, 6]cyclohepta[1, 2b]pyridine, or a benzo[5, 6]cyclohept (3,4) ene [1, 2b]pyridine, while Ar<sup>2</sup> is thienyl, X is oxygen, R<sup>1</sup> is hydrogen and n is 1, Ar<sup>1</sup> shall not be a phenyl group;

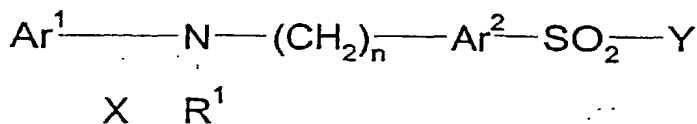
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with the further proviso that if X is oxygen, R<sup>1</sup> is hydrogen and n is 1, while Y is a piperazine, said piperazine at the para-nitrogen shall not be substituted by a group containing a benzamidine or a protected form thereof;

with the further proviso that the compounds 2-{[2-(benzoylaminoethyl)-thiophene]-5-sulfonyl}-1,2,3,5,6,7-hexahydro-N,N-dipropylcyclopentylisoin-  
dol-6-amine and N-[[5-[[7-cyano-1,2,3,5-tetrahydro-1-(1H-imidazol-4-yl-methyl)-3-(phenylmethyl)-4H-1,4-benzodiazepin-4-yl]sulfonyl]-2-thienyl]methyl] benzamide and its hydrochloride are excluded;

with the final proviso that if X is oxygen and Y is a 4-8 membered saturated cyclic alkyl containing one or two nitrogen atoms, Y shall not be substituted by a group (C=O)N(R,R') at the α-position of the sulfonamide nitrogen.

2. Sulfonamide derivatives according to formula I



with its geometrical isomers, in an optically active form as enantiomers, diastereomers, as well as in the form of racemates, as well as pharmaceutically acceptable salts thereof, wherein

Ar<sup>1</sup> and Ar<sup>2</sup> are independently from each other substituted or unsubstituted aryl or heteroaryl groups,

X is O or S, preferably O;

R<sup>1</sup> is hydrogen or a C<sub>1</sub>-C<sub>6</sub>-alkyl group, or R<sup>1</sup> forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with Ar<sup>1</sup>;

n is an integer from 0 to 5, preferably between 1-3 and most preferred 1;

Y within formula I is an unsubstituted or a substituted 4-12-membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide, for use as a medicament;

with the proviso that if Y is a piperidino- or a pyrrolidino group being substituted at the β-position of the piperidino- or a pyrrolidino nitrogen by a benzo[5, 6]cyclohepta[1, 2b]pyridine, or a benzo[5, 6]cyclohept (3,4) ene [1, 2b]pyridine,

with the further proviso that if X is oxygen, R<sup>1</sup> is hydrogen and n is 1, while Y is a piperazine, said piperazine at the para-nitrogen shall not be substituted by a group containing a benzamidine or a protected form thereof;

with the final proviso that if X is oxygen and Y is a 4-8 membered saturated cyclic alkyl containing one or two nitrogen atoms, Y shall not be substituted by a group (C=O)N(R,R') at the  $\alpha$ -position of the sulfonamide nitrogen.

- $$\begin{array}{ccc} \text{N} & \begin{array}{c} \text{---} \\ \text{---} \end{array} & \text{N} \text{---} \text{L}^1 \\ & \text{---} & \end{array} \quad \text{or} \quad \begin{array}{ccc} \text{N} & \begin{array}{c} \text{---} \\ \text{---} \end{array} & \text{L}^1 \\ & \text{---} & \text{L}^2 \end{array}$$

whereby,  $L^1$  and  $L^2$  are independently selected from each other from the group comprising or consisting of H, substituted or unsubstituted  $C_1$ - $C_6$ -aliphatic alkyl, substituted or unsubstituted  $C_2$ - $C_6$ -alkenyl, substituted or unsubstituted  $C_2$ - $C_6$ -alkynyl, substituted or unsubstituted cyclic  $C_4$ - $C_8$ -alkyl optionally containing 1-3 heteroatoms and optionally fused with aryl or heteroaryl; or  $L^1$  and  $L^2$  are independently selected from the group comprising or consisting of substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, aryl- $C_1$ - $C_6$ -alkyl, heteroaryl- $C_1$ - $C_6$ -alkyl,  $-C(O)-OR^3$ ,  $-C(O)-R^3$ ,  $-C(O)-NR^{3'}R^3$ ,  $-NR^{3'}R^3$ ,  $-NR^{3'}C(O)R^3$ ,  $-NR^{3'}C(O)NR^{3'}R^3$ ,  $-(SO)R^3$ ,  $-(SO_2)R^3$ ,  $-NSO_2R^3$ ,  $-SO_2NR^{3'}R^3$ , with  $R^3$ ,  $R^{3'}$  being substituents independently selected from the group comprising or consisting of H, substituted or unsubstituted  $C_1$ - $C_6$ -alkyl, substituted or unsubstituted  $C_2$ - $C_6$ -alkenyl, substituted or unsubstituted aryl, substituted or un-

substituted heteroaryl, substituted or unsubstituted aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl;

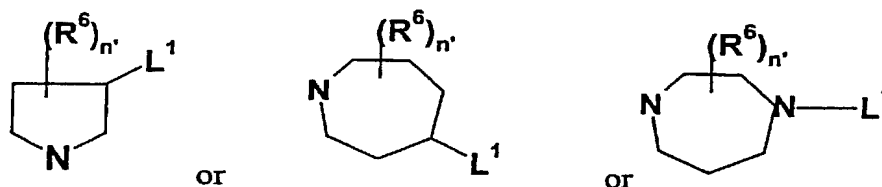
said aryl or heteroaryl groups being optionally substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, amino, acylamino, aminocarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, aryl, carboxyl, cyano, halogen, hydroxy, nitro, sulfonyl, sulfoxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy,

or L<sup>1</sup> and L<sup>2</sup> taken together form a 4-8-membered, substituted or unsubstituted saturated cyclic alkyl or heteroalkyl group; and

R<sup>6</sup> is selected from the group comprising or consisting of hydrogen, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkoxy, OH, halogen, nitro, cyano, sulfonyl, oxo (=O), and

n' is an integer from 0 to 4, preferably 1 or 2.

4. A sulfonamide derivative according to claim 1 or 2, wherein Y is a pyrrolidine, an azepan or a 1,4-diazepan moiety of the below formulas



wherein L<sup>1</sup> is selected from the group comprising or consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkenyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkynyl, substituted or unsubstituted cyclic C<sub>4</sub>-C<sub>8</sub>-alkyl optionally containing 1-3 heteroatoms and optionally fused with aryl or heteroaryl; or L<sup>1</sup> and L<sup>2</sup> are independently selected from the group comprising or consisting of substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, -C(O)-OR<sup>3</sup>, -C(O)-R<sup>3</sup>, -C(O)-NR<sup>3</sup>R<sup>3</sup>, -NR<sup>3</sup>R<sup>3</sup>, -NR<sup>3</sup>C(O)R<sup>3</sup>, -NR<sup>3</sup>C(O)NR<sup>3</sup>R<sup>3</sup>, -(SO)R<sup>3</sup>, -(SO<sub>2</sub>)R<sup>3</sup>, -NSO<sub>2</sub>R<sup>3</sup>, -SO<sub>2</sub>NR<sup>3</sup>R<sup>3</sup>;

R<sup>3</sup> and R<sup>3</sup>' are substituents independently selected from the group comprising or consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkenyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl;

$R^6$  is selected from the group comprising or consisting of hydrogen, substituted or unsubstituted  $C_1$ - $C_6$ -alkyl, substituted or unsubstituted  $C_1$ - $C_6$ -alkoxy, OH, halogen, nitro, cyano, sulfonyl, oxo (=O), sulfoxy, acyloxy, thioalkoxy and  $n'$  is an integer from 0 to 4, preferably 0.

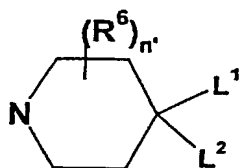
5 5. A sulfonamide derivative according to any of the preceding claims, wherein  $Ar^1$  and  $Ar^2$  are independently selected from the group comprising or consisting of phenyl, thienyl, furyl, pyridyl, optionally substituted by  $C_1$ - $C_6$ -alkyl, preferably trihalomethyl,  $C_1$ - $C_6$ -alkoxy,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl, amino, acylamino, aminocarbonyl,  $C_1$ - $C_6$ -alkoxycarbonyl, aryl, carboxyl, cyano, halogen, hydroxy, 10 nitro, sulfonyl,  $C_1$ - $C_6$ -thioalkoxy.

6. A sulfonamide derivative according to claim 5, wherein  $Ar^1$  is an unsubstituted or substituted phenyl.

7. A sulfonamide derivative according to claim 5, wherein  $Ar^2$  is an unsubstituted or substituted thienyl or furanyl group.

15 8. A sulfonamide derivative according to any of the preceding claims, wherein  $Ar^1$  is selected from a 4-chlorophenyl, nitrophenyl, hydroxyphenyl, alkoxy phenyl, pyridyl, 3,4-dihydroxyphenyl, thioxo-dihydropyridine or its tautomer, pyrazole and X is O,  $R^1$  is hydrogen, n is 1,  $Ar^2$  is thienyl or furanyl.

9. A sulfonamide derivative according to claim 8, wherein Y is



20 with  $(R^6)_n$ ,  $L^1$  and  $L^2$  being as above defined.

10. A sulfonamide derivative according to claim 9, wherein  $R^6$  is H,  $L^2$  is H,  $L^1$  is a 5-membered cyclic group containing 3 heteroatoms, preferably a triazole ring which is preferably fused with an unsubstituted or substituted aryl or heteroaryl; 25 or  $L^1$  is  $-C(O)-R^3$ , or  $-NHR^3$ ;

with R<sup>3</sup> being a substituent selected from the group comprising or consisting of C<sub>1</sub>-C<sub>12</sub>-alkyl, aryl, heteroaryl, aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl; said aryl or heteroaryl groups being optionally substituted by halogen, hydroxy, nitro, sulfonyl.

- 5 11. A sulfonamide derivative according to any of the preceding claims selected from the following group :

4-chloro-N-[5-(piperazine-1-sulfonyl)-thiophen-2-yl-methyl]-benzamide

4-Chloro-N-{5-[4-(3-trifluoromethanesulfonyl-phenylamino)-piperidine-1-sulfonyl]-thiophen-2-ylmethyl}-benzamide

10 4-chloro-N-({5-[(4-pyridin-2-ylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(4-fluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

15 4-chloro-N-[(5-{[4-(4-(trifluoromethyl)phenyl]piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-({5-[(4-{2-nitrophenyl}piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-({5-[(4-{4-nitrophenyl}piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

20 4-chloro-N-[(5-{[4-(2-furoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(4-hydroxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide\_

25 4-chloro-N-[(5-{[4-(2-oxo-2-pyrrolidin-1-ylethyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(2-morpholin-4-yl-2-oxoethyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(pyridin-4-ylmethyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

30 4-chloro-N-[(5-{[4-(2-thien-2-ylethyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(3,5-dimethoxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(cyclohexylmethyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

5 4-chloro-N-[(5-{[4-(2-methoxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-({5-[(4-benzylpiperazin-1-yl)sulfonyl]thien-2-yl}methyl)-4-chlorobenzamide

4-chloro-N-[(5-{[4-(2-phenylethyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

10 4-chloro-N-[(5-{[4-(4-fluorobenzyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(2-cyanophenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

15 4-chloro-N-({5-({4-[4-chloro-3-(trifluoromethyl)phenyl]piperazin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide

4-chloro-N-[(5-{[4-(3-piperidin-1-ylpropyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-({5-[(4-{4-chloro-2-nitrophenyl}piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide

20 4-chloro-N-[(5-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-({5-[(4-hydroxy-4-phenylpiperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide

N-({5-[(4-benzoylpiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-4-chlorobenzamide

25 4-chloro-N-[(5-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-({5-[(4-benzylpiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-4-chlorobenzamide

4-chloro-N-({5-[(4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]dec-8-yl)sulfonyl]thien-2-yl}methyl)benzamide

30 4-chloro-N-({5-({4-[2-(methylanilino)-2-oxoethyl]piperazin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide

- 4-chloro-N-{{5-({4-[hydroxy(diphenyl)methyl]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide
- 4-chloro-N-[(5-{{4-(3-cyanopyrazin-2-yl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide
- 5 4-chloro-N-({5-{{4-{{5-nitropyridin-2-yl}piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide
- 4-chloro-N-{{5-({4-{{3-chloro-5-(trifluoromethyl)pyridin-2-yl}piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide
- 4-chloro-N-{{5-({4-{{5-(trifluoromethyl)pyridin-2-yl}piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide
- 10 4-chloro-N-{{5-({4-{{3-(trifluoromethyl)pyridin-2-yl}piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide
- 4-chloro-N-[(5-{{4-(2,4-difluorobenzoyl)piperidin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide
- 15 methyl 5-{4-[(5-{{(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-7-(trifluoromethyl)thieno[3,2-b]pyridine-3-carboxylate
- ethyl 2-{4-[(5-{{(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-5-cyano-6-methylnicotinate
- 20 4-chloro-N-{{5-({4-{{5-cyano-4,6-bis(dimethylamino)pyridin-2-yl}piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide
- 4-chloro-N-{{5-({4-{{6-methyl-2-(trifluoromethyl)quinolin-4-yl}piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide
- tert-butyl 4-[(5-{{(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperazine-1-carboxylate
- 25 2-{4-[(5-{{(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-8-ethyl-5-oxo-5,8-dihydropyrido[2,3-d]pyrimidine-6-carboxylic acid
- 7-{4-[(5-{{(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-1-ethyl-6-fluoro-4-oxo-1,4-dihydro[1,8]naphthyridine-3-carboxylic acid
- 30 7-{4-[(5-{{(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-1-ethyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid

4-chloro-N-[(5-{[4-(2,3-dihydro-1,4-benzodioxin-2-ylcarbonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-{[5-(4-[(2E)-3-phenylprop-2-enyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

5 4-chloro-N-[(5-{[4-(3-phenylpropyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(3,4,5-trimethoxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

10 N-[(5-{[4-(4-tert-butylbenzyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

4-chloro-N-[(5-{[4-(4-fluorophenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(2-hydroxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

15 4-chloro-N-{[5-(4-[4-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(5-cyanopyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

20 tert-butyl 1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-ylcarbamate

4-chloro-N-({5-[(4-phenylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-{[5-(piperidin-1-ylsulfonyl)thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(1-naphthyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

25 4-chloro-N-[(5-{[4-(3,4-dichlorophenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-{[5-(4-[3-(trifluoromethyl)phenyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

30 4-chloro-N-{[5-(3-hydroxy-4-[3-(trifluoromethyl)phenyl]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(2-methylphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-[(5-{[(1R,4R)-5-benzyl-2,5-diazabicyclo[2.2.1]hept-2-yl)sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

N-[(5-{[4-(benzyloxy)piperidin-1-yl)sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

5 4-chloro-N-[(5-{[4-(2-chlorodibenzo[b,f][1,4]oxazepin-11-yl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

N-(4-chlorophenyl)-2-(5-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl)sulfonyl}thien-2-yl)acetamide

10 4-chloro-N-({5-[(4-hydroxypiperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

N-[(5-{[4-(4-acetylphenyl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

4-chloro-N-[(5-{[4-(3,5-dichloropyridin-4-yl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

15 4-chloro-N-[(5-{[4-(3-methoxyphenyl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

N-({5-[(4-benzyl-4-hydroxypiperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide

20 N-({5-({4-[(2-tert-butyl-1H-indol-5-yl)amino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-4-chlorobenzamide

4-chloro-N-({5-({4-[(phenylacetyl)amino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(tetrahydrofuran-2-ylcarbonyl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

25 4-chloro-N-[(5-{[4-(6-chloropyridin-2-yl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(4-chlorophenyl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

30 N-[(5-{[4-(2H-1,2,3-benzotriazol-2-yl)piperidin-1-yl)sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

4-chloro-N-[(5-{[4-(4-chlorobenzoyl)piperidin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-({5-[(4-phenoxy) piperidin-1-yl]sulfonyl}thien-2-yl)methyl)benzamide

N-{{5-({4-[benzyl(methyl)amino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}-4-chlorobenzamide

5 4-chloro-N-{{5-({4-[3-(2,4-dichlorophenyl)-1H-pyrazol-5-yl]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide

4-chloro-N-[(5-{{4-(5-thien-2-yl-1H-pyrazol-3-yl)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]benzamide

10 4-chloro-N-[(5-{{4-(2,3,4,5,6-pentamethylbenzoyl)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{{4-(phenylacetyl)-1,4-diazepan-1-yl}sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-{{5-({4-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide

15 N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-4-chlorobenzamide

4-chloro-N-[(5-{{4-(3-phenyl-1,2,4-thiadiazol-5-yl)piperazin-1-yl}sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{{4-(2-phenylethyl)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]benzamide

20 4-chloro-N-({5-[(4-heptylpiperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide

4-chloro-N-({5-[(4-octylpiperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide

N-[(5-{{4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

25 2-(5-{{4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl}sulfonyl}thien-2-yl)-N-(4-chlorophenyl)acetamide

2-{1-[(5-{{4-(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-2H-1,2,3-benzotriazole-5-carboxylic

4-chloro-N-[(5-{{4-(5-chloro-1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]benzamide

30 methyl 1-{1-[(5-{{4-(4-chlorobenzoyl)amino}methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-5-carboxylate

- methyl 1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl} thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-6-carboxylate
- methyl 2-{1-[(5-{[(4-chlorobenzoyl)amino]methyl} thien-2-yl)sulfonyl]piperidin-4-yl}-2H-1,2,3-benzotriazole-5-carboxylate
- 5 4-chloro-N-[(5-{[4-(6-chloro-1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]benzamide
- 4-chloro-N-{[5-( {4-[5-(trifluoromethyl)-1H-1,2,3-benzotriazol-1-yl]piperidin-1-yl} sulfonyl)thien-2-yl)methyl} benzamide
- 10 N-[(5-{[4-(7-aza-1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]-4-chlorobenzamide
- 1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl} thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-5-carboxylic
- 1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl} thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-6-carboxylic
- 15 N-[(5-{[4-(2-amino-9H-purin-9-yl)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]-4-chlorobenzamide
- 4-chloro-N-[(5-{[4-(9H-purin-9-yl)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]benzamide
- N-[(5-{[4-(6-amino-9H-purin-9-yl)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]-4-chlorobenzamide
- 20 4-chloro-N-({5-[(4-{6-nitro-1H-benzimidazol-1-yl} piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide
- 4-chloro-N-({5-[(4-{5-nitro-1H-benzimidazol-1-yl} piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide
- 25 4-chloro-N-[(5-{[4-(2H-1,2,3-triazol-2-yl)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]benzamide
- N-[(5-{[4-(1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]-4-chlorobenzamide
- 4-chloro-N-{[5-( {4-[3-propylanilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl} benzamide
- 30 4-chloro-N-{[5-( {4-[3-(trifluoromethyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl} benzamide

4-chloro-N-{{5-({4-[3-(dimethylamino)anilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl}benzamide

methyl

5 4-chloro-N-{{5-({4-[3-(methylsulfanyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl}benzamide

4-chloro-N-({5-({4-[3-nitroanilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl)benzamide

4-chloro-N-[(5-{{4-[2-methoxyanilino]piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

10 3-({1-[(5-{{(4-chlorobenzoyl)amino}methyl} thien-2-yl) sulfonyl]piperidin-4-yl} amino)benzamide

4-chloro-N-{{5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl}benzamide

15 4-chloro-N-({5-({4-[2-nitro-4-[(trifluoromethyl)sulfonyl]anilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl)benzamide

4-chloro-N-[(5-{{4-[4-chloroanilino]piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

4-chloro-N-{{5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl}benzamide

20 4-chloro-N-({5-({4-[4-(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl) sulfonyl)thien-2-yl}methyl)benzamide

4-chloro-N-({5-({4-[2-nitroanilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl)benzamide

25 N-{{5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl}-4-chlorobenzamide

4-chloro-N-{{5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl}methyl}benzamide

N-[(5-{{4-[3-chloroanilino]piperidin-1-yl} sulfonyl} thien-2-yl)methyl]-3-nitrobenzamide

30 4-chloro-N-[(5-{{4-[3-chloroanilino]piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-{[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl}benzamide

5 N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide

4-chloro-N-({5-[(4-{3-[(2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

10 N-[(5-{[4-(2-aminoanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

4-chloro-N-[(5-{[4-(2-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

15 4-chloro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(3-toluidino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

20 4-chloro-N-({5-[(4-{[3-chloro-5-(trifluoromethyl)pyridin-2-yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-[(5-({4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl}benzamide

N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

25 4-chloro-N-[(5-{[4-(2-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-({4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-yl)amino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl}benzamide

30 4-chloro-N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(4-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(3-nitropyridin-2-yl)amino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide

N-{[5-(4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide

5 N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide

N-[(5-{[4-(3-benzylanilino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide

10 4-chloro-N-[(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide

4-chloro-N-{[5-(4-[4-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-({5-[(4-{[4-(trifluoromethyl)pyrimidin-2-yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

15 4-chloro-N-[(5-{[4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide

N-({5-[(4-{3-[(butylamino)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide

20 4-chloro-N-[(5-{[4-(3-ethyl-anilino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide

N-{[5-(4-[3-(aminosulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide

25 4-chloro-N-[(5-{[4-(quinolin-5-ylamino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(quinolin-8-ylamino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide

30 4-Chloro-N-[(5-{[4-(3-propylphenoxy)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide

4-chloro-N-{[5-(4-[(2E)-3-phenylprop-2-enoyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-({5-[(4-{4-nitrobenzoyl}piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

N-({5-[(4-benzoylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide

5 4-chloro-N-({5-({4-[4-(trifluoromethyl)benzoyl]piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide

4-chloro-N-({5-({4-[4-(dimethylamino)benzoyl]piperazin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide

10 4-chloro-N-[(5-{[4-(2-fluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(2,6-difluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(3-fluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

15 4-chloro-N-[(5-{[4-(2-naphthoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(1-naphthoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

20 4-chloro-N-({5-[(4-{2-nitrobenzoyl}piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(pyridin-3-ylcarbonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-[(5-{[4-(2,1,3-benzoxadiazol-5-ylcarbonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide

25 4-chloro-N-[(5-{[4-(2,4-difluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-[(5-{[4-(2,4,6-trifluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

30 4-chloro-N-[(5-{[4-(2,6-dichlorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-chloro-N-({5-[(4-heptanoylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-chloro-N-[(5-{[4-(quinolin-8-ylsulfonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

5 N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

10 N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

15 4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide

20 N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide

3-nitro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

3-nitro-N-{{5-[(4-{3-[(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

25 N-{{5-[(4-{3-(dimethylamino)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-nitrobenzamide

3-nitro-N-{{5-[(4-{3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

30 3-nitro-N-{{5-[(4-{3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

N-{{5-[(4-{3-(aminosulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-nitrobenzamide

methyl

N-{{5-({4-[3-(aminocarbonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-nitrobenzamide

3-nitro-N-({5-({4-[3-nitroanilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

3-nitro-N-({5-({4-(2-methoxyanilino)piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

3-nitro-N-{{5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

3-nitro-N-({5-({4-[2-nitroanilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

N-({5-({4-(4-chloroanilino)piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-nitrobenzamide

3-nitro-N-{{5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

3-nitro-N-({5-({4-{{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

N-{{5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-nitrobenzamide

N-({5-{{4-(3-propylanilino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl}-3-nitrobenzamide

N-({5-{{4-(3-chloroanilino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl}-4-nitrobenzamide

4-nitro-N-({5-{{4-(3-methoxyanilino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl}benzamide

4-nitro-N-{{5-({4-[3-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

N-{{5-({4-[3-(dimethylamino)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-4-nitrobenzamide

4-nitro-N-({5-{{4-(3-propylanilino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl}benzamide

4-nitro-N- {[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl} benzamide

4-nitro-N- {[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl} benzamide

5 N- {[5-({4-[3-(aminosulfonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl}-4-nitrobenzamide  
methyl

3- {[1-({5-[(4-nitrobenzoyl) amino]methyl}thien-2-yl} sulfonyl)piperidin-4-yl]amino} benzamide

10 4-nitro-N- ({5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide

4-nitro-N- [(5- {[4-(2-methoxyanilino)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]benzamide

15 4-nitro-N- {[5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl} benzamide

4-nitro-N- ({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide

N- [(5- {[4-(4-chloroanilino)piperidin-1-yl]sulfonyl} thien-2-yl)methyl]-4-nitrobenzamide

20 4-nitro-N- {[5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl} benzamide

4-nitro-N- ({5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide

25 N- {[5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl}-4-nitrobenzamide

N- {[5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl]methyl}-4-nitrobenzamide

N- ({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)-3-nitrobenzamide

30 N- ({5-[(4-{3-[(2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)-3-nitrobenzamide

N- ({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-3-nitrobenzamide

N-({5-[(4-{3-[(2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide

5 N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide

3-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

10 3-nitro-N-[(5-{[4-({3-nitropyridin-2-yl}amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-{{5-({4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-yl)amino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-3-nitrobenzamide

15 N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

3-nitro-N-[(5-{[4-(2-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

3-nitro-N-[(5-{[4-(4-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

20 N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

3-nitro-N-{{5-({4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide

25 3-nitro-N-[(5-{[4-(2-phenylethyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-({5-[(4-{[3-chloro-5-(trifluoromethyl)pyridin-2-yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide

N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

30 N-[(5-{[4-(3-benzylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

3-nitro-N-{{5-({4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl} benzamide

3-nitro-N-[(5-{{4-(3-propylphenoxy)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

5 4-nitro-N-[(5-{{4-(pyrimidin-2-ylamino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

N-{{5-({4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl}-4-nitrobenzamide

10 4-nitro-N-[(5-{{4-({3-nitropyridin-2-yl} amino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

N-[(5-{{4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]-4-nitrobenzamide

4-nitro-N-[(5-{{4-(2-propylanilino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

15 4-nitro-N-[(5-{{4-(4-propylanilino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

N-[(5-{{4-(3-tert-butylanilino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]-4-nitrobenzamide

20 4-nitro-N-{{5-({4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl} benzamide

4-nitro-N-[(5-{{4-(2-phenylethyl)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]benzamide

N-({5-[(4-{{3-chloro-5-(trifluoromethyl)pyridin-2-yl} amino} piperidin-1-yl) sulfonyl]thien-2-yl} methyl)-4-nitrobenzamide

25 N-[(5-{{4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]-4-nitrobenzamide

N-[(5-{{4-(3-benzylanilino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]-4-nitrobenzamide

30 4-nitro-N-{{5-({4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl} benzamide

N-[(5-{{4-(2-aminoanilino)piperidin-1-yl} sulfonyl} thien-2-yl)methyl]-3-nitrobenzamide

3-nitro-N-[(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-[[5-({4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl]-3-nitrobenzamide

5 N-({5-[(4-{2-nitro-4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl} methyl)-3-methoxybenzamide

3-nitro-N-[(5-{[4-(3-phenylpropyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

10 3-nitro-N-({5-[(4-{[4-(trifluoromethyl)pyrimidin-2-yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl} methyl)benzamide

N-[(5-{[4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

N-({5-[(4-{3-[(butylamino)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl} methyl)-3-nitrobenzamide

15 N-[(5-{[4-(3-ethylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

3-nitro-N-[(5-{[4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

20 4-nitro-N-[(5-{[4-(3-propylphenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide

N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

25 2-Hydroxy-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl} methyl)benzamide

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

30 N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-hydroxybenzamide

N-[[5-({4-[(1,3-dithiolan-2-yl)anilino]piperidin-1-yl} sulfonyl)thien-2-yl)methyl]-3-nitrobenzamide

3-methoxy-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

3-methoxy-N-{[5-(4-[3-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

5 N-{[5-(4-[3-(dimethylamino)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

3-methoxy-N-[(5-{[4-(3-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

10 3-methoxy-N-{[5-(4-[3-(methylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

3-methoxy-N-{[5-(4-[3-(methylsulfanyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

N-{[5-(4-[3-(aminosulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

15 methyl

N-{[5-(4-[3-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

3-methoxy-N-[(5-{[4-(2-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

20 N-({5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

3-methoxy-N-{[5-(4-[2-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

25 N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

N-{[5-(4-[4-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

N-{[5-(4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

30 N-[(5-{[4-(3-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

N-[(5-{[4-(4-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

3-methoxy-N-({5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

5 N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

N-({5-[(4-{3-[(2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

10 3-methoxy-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide

3-methoxy-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

15 N-[(5-{[4-(4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

3-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

20 4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

N-[(5-{[4-(2-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

3-methoxy-N-[(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

25 N-{{5-({4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide

N-[(5-{[4-({3-nitropyridin-2-yl)amino}piperidin-1-yl)sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

30 N-{{5-({4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-yl)amino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide

N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

3-methoxy-N-[(5-{[4-(2-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

3-methoxy-N-[(5-{[4-(4-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

5 N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

N-({5-([4-{[3-chloro-5-(trifluoromethyl)pyridin-2-yl]amino}piperidin-1-yl]sulfonyl}thien-2-yl)methyl)-3-methoxybenzamide

10 3-methoxy-N-{[5-({4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

3-methoxy-N-[(5-{[4-(3-propylphenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

15 3-methoxy-N-{[5-({4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide

3-methoxy-N-[(5-{[4-(2-phenylethyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

20 N-[(5-{[4-(3-benzylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

3-methoxy-N-[(5-{[4-(3-phenylpropyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

3-methoxy-N-({5-([4-{[4-(trifluoromethyl)pyrimidin-2-yl]amino}piperidin-1-yl]sulfonyl}thien-2-yl)methyl)benzamide

25 N-[(5-{[4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

N-({5-([4-{3-[(butylamino)sulfonyl]anilino}piperidin-1-yl]sulfonyl}thien-2-yl)methyl)-3-methoxybenzamide

30 N-[(5-{[4-(3-ethylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

3-methoxy-N-[(5-{[4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-5-nitro-1H-pyrazole-3-carboxamide

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-oxo-1,2-dihydropyridine-3-carboxamide

5 N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-thioxo-1,2-dihydropyridine-3-carboxamide

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3,4-dihydroxybenzamide

10 N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]pyridine-2-carboxamide

N-[(5-{[4-(hexyloxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

N-[(5-{[4-(heptanoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide

15 4-chloro-N-[(5-{[4-(3-propylanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide

4-chloro-N-[(5-{[4-(3-chloroanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide

20 4-chloro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide

4-chloro-N-[(5-{[4-(3-(trifluoromethyl)anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide

4-chloro-N-[(5-{[4-(3-(dimethylamino)anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide

25 4-chloro-N-[(5-{[4-(3-(methylsulfonyl)anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide

4-chloro-N-[(5-{[4-(3-(methylsulfanyl)anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide

30 N-[(5-{[4-(3-(aminosulfonyl)anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]-4-chlorobenzamide

methyl 3-[(1-[(5-{[(4-chlorobenzoyl)amino]methyl}-2-furyl)sulfonyl]piperidin-4-yl)amino]benzoate

3-({1-[(5-[(4-chlorobenzoyl)amino]methyl}-2-furyl)sulfonyl]piperidin-4-yl}amino)benzamide

4-chloro-N-({5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide

5 4-chloro-N-[(5-({4-(2-methoxyanilino)piperidin-1-yl}sulfonyl)-2-furyl)methyl]benzamide

4-chloro-N-({5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl}benzamide

10 4-chloro-N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide

4-chloro-N-[(5-({4-(4-chloroanilino)piperidin-1-yl}sulfonyl)-2-furyl)methyl]benzamide

4-chloro-N-({5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl}benzamide

15 4-chloro-N-({5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide

N-({5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl}-4-chlorobenzamide

20 4-chloro-N-({5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl}benzamide

N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}-4-chlorobenzamide

4-chloro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide

25 N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]-2-furyl)methyl}-4-chlorobenzamide

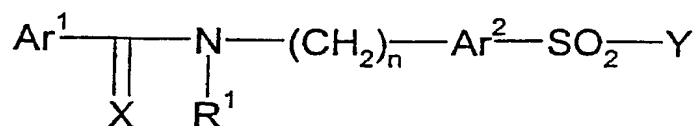
4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide

4-chloro-N-({5-[(3-{3-[(trifluoromethyl)sulfonyl]anilino}pyrrolidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

30 4-chloro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}azepan-1-yl)sulfonyl]thien-2-yl)methyl}benzamide

12. A sulfonamide derivative according to claim 11, which is selected from the group consisting of
- 4-chloro-N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide
- 5 4-chloro-N-[(5-{[4-(phenylacetyl)-1,4-diazepan-1-yl]sulfonyl}thien-2-yl)methyl]benzamide
- N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-4-chlorobenzamide
- N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide
- 10 N-[(5-{[4-(1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide
- 4-chloro-N-({5-([4-[3-propylanilino]piperidin-1-yl]sulfonyl)thien-2-yl}methyl)benzamide
- 4-chloro-N-[(5-{[4-(4-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide
- 15 4-chloro-N-({5-([4-{3-[(2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl]sulfonyl}thien-2-yl}methyl)benzamide
- N-({5-([4-[3-(aminosulfonyl)anilino]piperidin-1-yl]sulfonyl)thien-2-yl}methyl)-4-chlorobenzamide
- 20 4-chloro-N-[(5-{[4-(1-naphthoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide
- 4-nitro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide
- methyl 3-{[1-({5-[(4-nitrobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}amino}benzoate
- 25 N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-hydroxybenzamide
- N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)-3-methoxybenzamide

- 30 13. Use of a sulfonamide derivative according to formula I



I

wherein Ar<sup>1</sup> and Ar<sup>2</sup> are independently from each other substituted or unsubstituted aryl or heteroaryl groups;

X is O or S, preferably O;

5 R<sup>1</sup> is hydrogen or a C<sub>1</sub>-C<sub>6</sub>-alkyl group, or R<sup>1</sup> forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with Ar<sup>1</sup>;

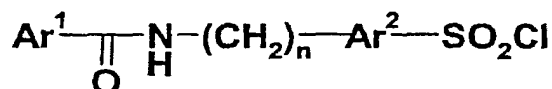
n is an integer from 0 to 5, preferably between 1-3 and most preferred 1;

Y within formula I is an unsubstituted or a substituted 4-12-membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide,

10 for the preparation of a pharmaceutical composition for the modulation of the JNK pathway.

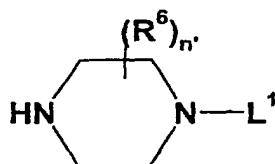
14. Use according to claim 13 for the treatment or prevention of disorders associated with the abnormal expression or activity of JNK.
15. Use according to claim 14 for the treatment or prevention of disorders associated with abnormal expression or activity of JNK2 and/or 3.
16. Use of sulfonamides according to formula I in particular according to any of claims 13 to 15 for the treatment of neuronal disorders including epilepsy; Alzheimer's disease, Huntington's disease, Parkinson's disease; retinal diseases, spinal cord injury, head trauma.
17. Use of sulfonamides according to formula I in particular according to any of claims 13 to 15 for the treatment of autoimmune diseases including Multiple Sclerosis, inflammatory bowel disease (IBD), rheumatoid arthritis, asthma, septic shock, transplant rejection.

18. Use of sulfonamides according to formula I in particular according to any of claims 13 to 15 for the treatment of cancer including breast-, colorectal-, pancreatic cancer.
19. Use of sulfonamides according to formula I in particular according to any of claims 13 to 15 for the treatment of cardiovascular diseases including stroke, arterosclerosis, myocordial infarction, myocordial reperfusion injury.
20. A pharmaceutical composition containing at least one sulfonamide derivative according to any of the claims 2 to 12 and a pharmaceutically acceptable carrier, diluent or excipient thereof.
21. Process for the preparation of a sulfonamide derivative according to any of claims 1 to 12, wherein a sulfonyl chloride V



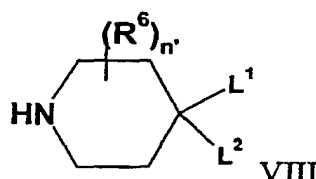
V

is reacted with an amine VII or VIII



VII

or



VIII

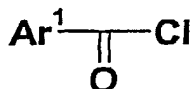
whereby  $(\text{R}^6)_n$ ,  $\text{L}^1$  and  $\text{L}^2$  are as above defined.

22. A process according to claim 21, wherein a sulfonyl chloride V is obtainable by a) coupling an amine of formula II:



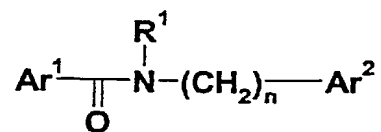
II

where  $\text{Ar}^2$  and  $\text{R}^1$  are as defined above, with an acyl chloride of formula III:



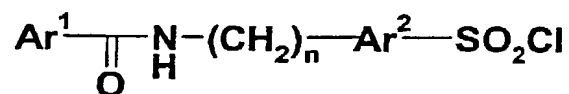
III

where  $\text{Ar}^1$  is as defined above, to provide an amide of formula IV:



IV

b) sulfonating the amide of formula IV to provide a sulfonyl chloride V



V